AKAI VS-G215

150

General Information

1994

Video: 2 Heads Rotary Audio: Fixed Head 1 CH Covers Models: Akai VS-G204/VS-G205 Akai VS-G206/VS-G211 Akai VS-G212/VS-G217 Bush VCR 820VP

Part No.

EC-422101J

EC-418706J

EC-422103J

EC-418760J

EC-418759J

EC-418841J

ED-422125J

ED-422420J

ED-396363J

ED-397233J

ED-511907

ER-410380J

ER-408829J

ER-397385J

ER-410380J

ER-408829J

ER-400729J

ER-418648J

EI-418723J

EI-416620J

EO-339907

EO-418689J

EO-418689J

EO-422134J

ER-418739J

ER-422181J

ER-422186J

ER-425232J

ER-411836J

ER-418808J

ER-425232J

ER-425231J

ER-386215J

ER-397193J

BT-425397N

BT-422116N

EX-412421J

ET-422118J

ET-422129J

ET-422464J

ET-422154J

ET-404498J

Item

Item

C1/2

C3-C9

C11A

C12

C13

C15

D1-D5

D25/27

D201

D202

FR1-A

FR1-B

FR201

FR202

FR204

FR401

FR402

IC201

IC203

11

12

L201

L202

R1

R2

R6-A

R6-B

R7-A

R7-B

R23

R25

R27-A

R27-B

T1-A

T1-B

TR1

TR2

TR203

TR210

TR211

TH201

D415-D418

VIF Units

Matrix See Model Akai VS-F260

Service Adjustments

Disassembly of the Main Components

Removal of the Mechanism Block

Note:

Recommended Safety Parts

Description

C MMY V CUT MKTR40 104M 275AC

C CE V CUT CS11 E222M 400AC

CEC V CUT TWSS 470M400.0DC

C CE V TO5 FK22 Y5R103K 500DC

C CE V TO5 CC45 SL121K1000DC

C MMY V TO5 ECQ-VL2 333J 50DC

D Zener H HZS11B3 (EA,ES,EM,EDG,EK)

R Fuse V TO5 RF25SCVTP1/4WR11K (EM)

R Fuse V TO5 RF25SCVTP1/4WR91k

R Fuse V TO5 RF255CVTP1/4WR20K

R Fuse V TO5 RF25SCVTP1/4WR91K

R Fuse V TO5 RF25SCVTP1/4WR11K

R Fuse V TO5 RF25SCVTP1/4WR47K

R Fuse V TO5 RF25SCVTP1/4WR24K

Coil IF FKOB160MH16 1000.0UH (EOG)

R OMF H S20 FS ERG3SH 3W 823J

R OMF H S15 FS PRO2 2W 431J (EM)

R OMF H S15 FS 2W 1ROJ (Except EM)

R OMF H S15 FS RSSX 2W R68J (EM)

R OMF H S15 FS PRO2 2W 431J (EM)

R OMF H S12 FS 1W 220J (except EM)

Trans Pow V1184 EM (except EM)

Thermistor 911P83E101NH07 TO5

TR C.2SD2118 Q,R,S FPTLT16E

R OMF V TO5FS ERG1SE 1W 100J (EM)

R OMF H S20 FS ERG3SH 3W 431J (EM)

R OMF H S15 FS PRO2 2W 151J (Ecept EM)

IC NJM7809FA (EO,EOH.EOG)

D Silicon 1N4006 T26 800/1.0A

D Zener G MTZJ20C T26

D Silicon 1N4002 100/1.0A

D Zener H HZS5C3

(except EM)

(EO,EOH,EOG)

IC NJM4558DX

Coil LF LF-4DA 333

Coil FIX 2 PC7-330K 330K

Coil FIX 2 PC7-330K 330K

RCTPRGG33W4R7K

Trans Pow V1182EK (EM)

TR2SC4304.0Y

TR2SD2132U,V TO5

TR 2SB1426 Q.R TO5

TR 2SB1306 Q.R TO5

Some parts in the mechanism block require complete removal of the mechanism block from the chassis when performing servicing. Set the Loading mechanism to the "EJECT" position by pressing the "EJECT" button, then

disconnect the AC power plug from the AC socket before proceeding. This sets the loading mechanism to the "reference position".

Removal of the Pre Amp PCB

- 1: Disconnect the two flat cables from the P2 and P4 connectors respectively.
- 2: Disconnect the connectors on the AC/HEAD and FULL TRACK ERASE HEAD.
- 3: Remove one of the (A) screws and remove the EARTH BRUSH.
- 4: Remove the other (A) screw, then press the lower side of the shield case in the direction of the arrow as shown in Fig 1
- 5: Proceed in the reverse order for installation.

Carefully align the connectors between the one on the DRUM MOTOR PCB, the one on the LOWER DRUM and P1, P3 on the PRE AMP PCB.

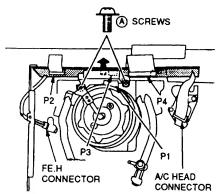


Fig 1

Removal of the TR (A) PCB

 Remove the (B) transistor retaining screw, then remove the TR (A) PCB from the MECHANISM BLOCK.

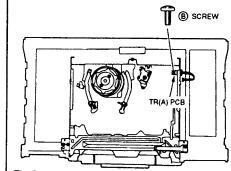


Fig 2.

Removal of the Mechanism Block

- Remove the three retaining screws on the bottom
- Remove the two (D) screws and the (E) screw which retain the MECHANISM BLOCK and the EARTH PLATE as shown in Fig 3.
- Pull up the MECHANISM BLOCK carefully for detaching it from the chassis and the MAIN PCB.

Installation of the Mechanism Block

Fig 3.

Carefully align the (A) and (B) bosses on the chassis with there corresponding holes on the MECHANISM BLOCK and then tighten the three screws as shown in Fig 3.

F (E) SCREW

2: Proceed in the reverse order for installation.

Removal of the Ejector Block

Removal of the Cassette Load Block

- Remove the two (A) screws on the UPPER PLATE, as shown in Fig 4, then remove the UPPER PLATE.
- 2: Unhook the spring and remove it as shown in Fig 4.
- shown in Fig 4.

 While pressing the right STOPPER in the direction of the arrow (refer to Fig 4.), gently remove the right side pin of the CASSETTE LOAD BLOCK from the rail by pulling it in the forward direction.

 Next, remove the left side pin in the same manner, then remove the CASSETTE LOAD BLOCK.

 To avoid damaging the pins of the CASSETTE LOAD BLK and the rail of the MECHA. FRAME, do not use excessive force when removing the CASSETTE LOAD BLK.

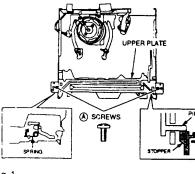


Fig 4.

Removal of the Loading Arm Block

- 1: Release the stopper on the right side end of the LOADING ARM BLK's shaft as shown in Fig 5. by pressing the stopper tab with a flat head (-) screw driver. Then remove the shaft's right end from the bracket.
- 2: Hold the LOADING ARM (T) and then pull out the shaft's left end from the bracket.

Take special care when removing it to avoid damaging the pins (refer to Fig 5)

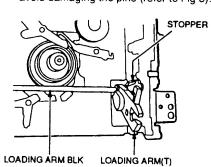


Fig 5.

Re-assembling

1: Proceed in the reverse order.

Removal of the Mode Select Switch

Before proceeding with removal of the MODE SELECT SWITCH, the loading mechanism must be set to the "reference" position. If it has not already been set, use the following procedure to set the reference position.

* Connect a 6V battery to the loading motor until both the cam slider gear and mode select switch reach the reference position (refer to Fig 7).

Removal of the Mode Select Switch

- 1: Unsolder the 5 leads of the mode select switch.
- Remove the (A) screw.
- : While releasing the two (A) stoppers and two (B) stoppers, carefully remove the mode select switch by pulling it up and to the left.

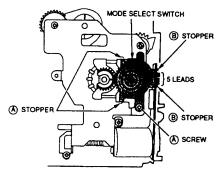


Fig 6.

Installation of the Mode Select Switch

 Install the mode select switch in the reverse order. When mounting the mode select switch, align the mode select switch's (A) mark with the (B) mark on the cam slider gear as shown in Fig 7.

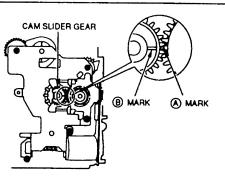


Fig 7.

Disassembly of the Loading Drive

* Set the loading mechanism to the "reference" position.

Refer to "REMOVAL OF THE MODE SELECT SWITCH" before proceeding.

Removal of the Loading Drive Block

- I: Remove the MODE SELECT SWITCH (refer to "REMOVAL OF THE MODE SELECT SWITCH") if necessary.
- 2: Remove the (A),(B), and (D) screws then remove the LOADING DRIVE BLOCK as shown in Fig 8.

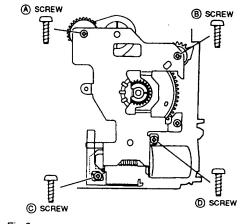
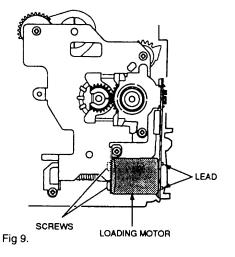


Fig 8.

Replacement of the Loading Motor

- Remove the LOADING DRIVE BLOCK
 Unsolder the two leads of the LOADING MOTOR.
- Remove the two installation screws.
- Reassemble in the reverse order for installation.



Head Motors and Miscellaneous

Part No. Description HR-416732J Head Combo HVMZA1161A HE-422168J Head E HVFHF0032A BV-V1182A410A Lower Drum BLK G204EA BM-421746N Motor Part BM-419269N Motor SCV-0602A BM-419324N1 Motor SDV-0302A BV-V1182A420A Upper Drum BLK G215EK (EK) Upper Drum BLK X4()0EGN (Except EK) BV-V1182A420A

Service Adjustments Cont'd.

Re-assembly of the Loading Mechanism Block

Position of the TOGGLE GEARs (T) and (S)

Set the TOGGLE GEARs (T) and (S) to the unloaded position with your fingers. Align the (A) mark on the TOGGLE GEAR (S) with the (A) hole of the TOGGLE GEAR (T) as shown in Fig 10.

When positioning the TOGGLE GEAR (S), the TENSION ARM's pin should be moved in the direction of the arrow before placing the TOGGLE GEAR (S) onto its shaft.

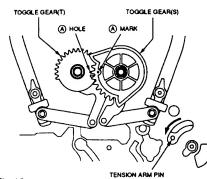


Fig 10.

Installation of the Cam Slider Gear & Front Loading Gear

Attach the WORM WHEEL GEAR as shown in Fig 11.

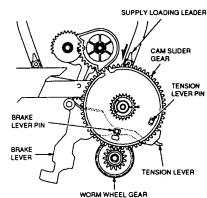
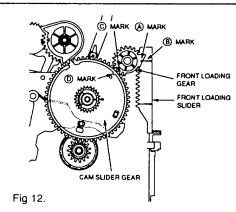


Fig 11.

Place the CAM SLIDER GEAR on the shaft and adjust the position of the BRAKE LEVER and TENSION LEVER so that both pins appear through the holes on the CAM SLIDER GEAR as shown in Fig 11.

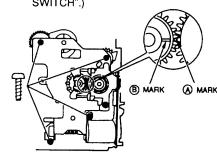
When inserting the CAM SLIDER GEAR onto its shaft, press the SUPPLY LOADING GEAR slightly in the direction of the arrow to make installation easy.

Attach the FRONT LOADING GEAR so that the (A) mark on the FRONT LOADING GEAR aligns with the (B) mark on the FRONT LOADING SLIDER and that the (C) mark on the FRONT LOADING GEAR aligns with the (D) mark on the CAM SLIDER GEAR as shown in Fig 12.



Installation of the Loading Block & Mode Select Switch

Install the LOADING DRIVE BLOCK as shown in Fig 13. Align the (A) mark on the MODE SELECT SWITCH's gear with the (B) mark on the CAM SLIDER GEAR when installing. (Refer to "Installation of the MODE SELECT SWITCH".)

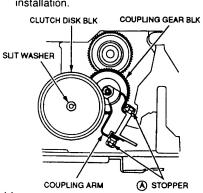


Replacement of the Disc Clutch Block & Gear Coupling Block

Remove the SLIT WASHER as shown in Fig 14.

Release the two (A) stoppers of the COUPLING ARM and pull up the CLUTCH DISK BLOCK and COUPLING GEAR BLOCK at the same time.

Reassemble in the reverse order for installation



Replacement of the Review Brake Part &

Un hook the (A) spring, then release the stopper of the REVIEW BRAKE PART and remove it.

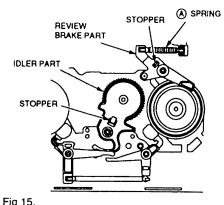
Reassemble in the reverse order for installation.

Replacemnt of the Idler Part

Remove the CASSETTE LOAD BLOCK & LOADING ARM BLOCK. (Refer to "Removal of the EJECTOR BLOCK")

Release the stopper of the IDLER PART and remove it as shown in Fig 15.

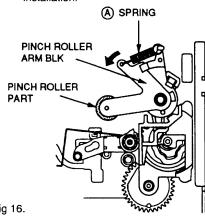
Reassemble in the reverse order for installation.



Replacement of the Pinch Roller Block

Remove the (A) spring, then remove the PINCH ROLLER ARM BLOCK by turning it in the direction of the arrow and pulling it upward as shown in Fig 16.

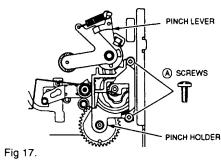
Reassemble in the reverse order for installation



Disassembly of the Pinch Lever & Pinch Holder

Removal of the Pinch Lever and Pinch Holder

Remove the two (A) screws then remove the PINCH LEVER and PINCH **HOLDER**

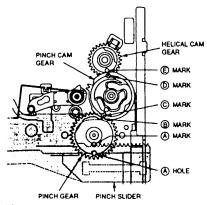


Installation of the Pinch Lever & Pinch

Align the (A) hole on the PINCH SLIDER with the (A) mark on the PINCH GEAR through the hole on the chassis as shown in Fig 18

Align the (B) mark on the PINCH GEAR with the (C) mark on the PINCH CAM GEAR and the (D) mark on the PINCH CAM GEAR with the (E) mark on the HELICAL CAM GEAR as shown in Fig 18.

Install the PINCH LEVER and PINCH HOLDER in the reverse order.



Replacement of the Capstan Motor Block

Remove the three (A) screws as shown

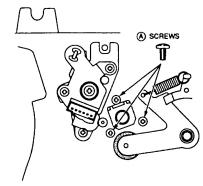


Fig 19.

2: Remove the CAPSTAN BELT. 3:

Remove the (B) screw and then remove the CAPSTAN MOTOR HOLDER.

Release the two (A) stoppers and remove the CAPSTAN BRAKE PART.

5: Remove the CAPSTAN MOTOR BLOCK while releasing the (B) and (C) stoppers.

Proceed in the reverse order for installation.

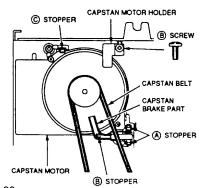
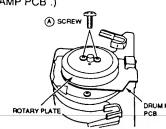


Fig 20

Fig 21

Drum Motor PC Board Replacement

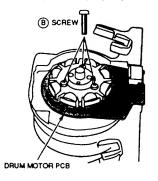
Remove the two (A) screws on the ROTARY PLATE and then remove it. (If the PRE AMP PCB is not removed yet, remove it first before removing the (A) screws.(Refer to "Removal of the PRE AMP PCB".)



Remove the three (B) screws which retain the DRUM MOTOR PCB and replace it

Attach the ROTARY PLATE to the collar preload so that the rotary place (c) hole and collar preload (D) hole line up.

After replacement, PB switching point adjustment (INFORMATION, PRESET IN THE TEST MODE, #2) is absolutely necessary for the proper performance.



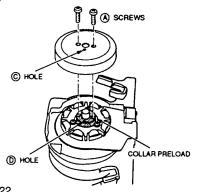


Fig 22.

Replacement of the Upper Drum

Removal of the Upper Drum

Unsolder the four relay leads and remove the two upper drum fixing screws as n in Fig 23.

Gently lift and remove the UPPER DRUM.

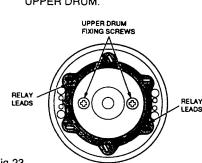


Fig 23.

Installation of the Upper Drum

Attach the UPPER DRUM to the LOWER DRUM ROTOR, so that the upper drum convex (A) and lower drum rotor's white PCB line up, as shown in Fig 24.

Because height precision is required for proper performance, and because head tips are fragile, the following points should be noted when replacing the UPPER DRUM BLOCK.

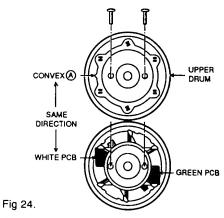
Do not loosen the set screw on the collar preload.

Before fixing, use alcohol to clean both surfaces where the upper drum and the rotary transformer meet.

If the UPPER DRUM can not be inserted on to the shaft easily during installation, clean the hole in the UPPER DRUM with alcohol and put a little oil on the shaft.

Make sure that the upper drum fixing screw holes, on the rotary transformer part, and the upper drum fixing screw penetration holes match exactly before inserting the fixing screws.

Tighten the two upper drum fixing screws alternately and gradually.



After Replacement

After replacement the following adjustments are necessary for the proper performance.

Control head phase adjustment. (MECHANICAL ADJUSTMENT)

PB switching point adjustment (INFORMATION, PRESET IN TEST MODE #2)

3: ENV.DET (I-HQ) adjustment. (INFORMATION, PRESET IN THE TEST MODE #3)

Video head REC current adjustment.(VI.ELECTRICAL ADJUSTMENT Step 4)

Mechanical Adjustments

Back Tension Adjustment

Prepare a video cassette which you no longer need. Remove. tape reels and the tape protection co from the cassette tape. Next, cover i e video cassette's left and right detection holes with black adhesive tape.

Engage the playback mode using with a tapeless tape.

Confirm the distance between the three marks (lines) on the TENSION ARM and the (A) mark on the MECHA. CHASSIS so that the (A) mark aligns with the right edge of the centre line on the TENSION ARM as shown in Fig 25.

If the result is not satisfactory, eject the tape and adjust the TENSION ADJUST repeatedly until a satisfactory result is

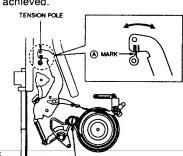


Fig 25.

(c) CORRECT

Service Adjustments Cont'd.

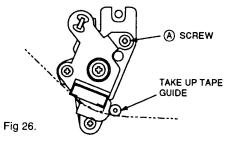
Tape Transport Adjustments

Note:

The following adjustments are required only when an irregularity is found, since these adjustments are precisely set at the factory.

Tape Curl Adjustment at the Take-Up Tape

- Play back a recorded tape which is no 1: longer needed.
- Turn the (A) screw on the A/C HEAD BLK, until the edge of the tape barely touches the lower part of the TAKE UP TAPE GUIDE, without any curl or wrinkle
- Once the (A) screw is adjusted, A/C HEAD height and azimuth adjustment is required. (Refer to A/C HEAD POSITION ADJUSTMENT.)



(TAKE-UP TAPE GUIDE)

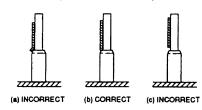
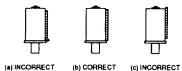
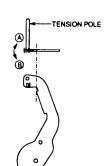


Fig 28.

Tape Curl Adjustment at the Supply Tape Guide

Confirm that the lower edge of the tape barely touches the lower part of the SUPPLY TAPE GUIDE, without any curl or wrinkle as shown in Fig 28. If necessary, bend the neck part of the TENSION ARM in the (A) or (B) direction slightly until a satisfactory result is achieved.





Review Arm Height Adjustment

Play back the begining part of an E-240 (T-160) tape and set the unit to the REVIEW mode by pressing the REW utton. (Remove the tape protection cover to make the adjustment easier.)

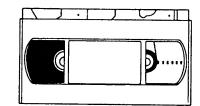


Fig 29.

Turn the REVIEW ARM height (A) nut so that the edge of the tape barely touches the lower part of the TAKE- UP TAPE GUIDE, without any curl or wrinkle between the TAKE-UP TAPE GUIDE and the CAPSTAN SHAFT as shown in Fig 30.

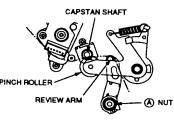


Fig. 5-6



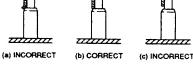


Fig. 5-7



Fig 30.

Play back the beginning part of an E-240 (T-160) tape and this time set the unit to the CUE mode by pressing the F.FWD

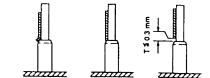
Confirm there is no curl or wrinkle near the REVIEW ARM's guide. If curl or wrinkle of the tape occurs, slightly turn the (A) nut (Shown in Fig 30.) until it disappears



CORRECT Fig 31.

Set the unit to the REVIEW mode again. Then confirm that there is no curl or wrinkle near the TAKE-UP TAPE GUIDE.

(A small gap may appear after this adjustment, but this is allowable.)



(b) CORRECT

Fig 32.

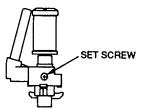
(a) INCORRECT

If the results are not satisfactory, repeat steps 2 -5.

Always play an undamaged tape to obtain satisfactory adjustment. Because an E-240 (T-160) tape can be damaged easily, due to its thinness, a pre-adjustment with an E-180 (T- 120) tape is recommended.

Loading Leader Height Adjustment

Slightly loosen the set screw at the lower part of the LOADING LEADERs (L), (R) so that the LOADING LEADER can be adjusted with reasonable tightness. (Refer to Fig 33.)



2: Play back the reference tape TF-530RFS (AT-751775).

3: Connect an oscilloscope's CH-1 to the TP2 (ENVE) on the PRE AMP PCB and CH-2 to the TP1 (V-SWP) for triggering.

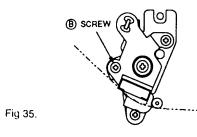
A/C Head Position Adjustment

Azimuth Adjustment

Fig 33.

Fig 34.

- Connect an AC voltmeter or an oscilloscope to the AUDIO OUT terminal on the rear panel.
- Play back the reference tape TF-530RFS(AT-751775)
- Adjust the (B) screw to obtain the maximum audio output.
- Turn the LOADING LEADER heads with a flat head (-) screw driver to obtain a flat RF envelope as the ideal envelope, as shown in Fig 34.
- After adjustment is completed, tighten the loading leader set screws.



Height Adjustment

- Play back test tape TF-526HH (AT-751788)
- Connect an oscilloscope's CH-1 to the AUDIO OUT terminal on the rear panel and CH-2 to TP401 (CTL OUT) on the MAIN PCB
- Turn the (C) screw to obtain 1/2 of the output level of either CH-1 or CH-2 whichever has an output signal as shown in Fig 36. and 37. Next, set both of the oscilloscope's channels to 100 mV/div and finely adjust the (C) screw until both signals of CH-1 and CH-2 are nearly the same level as shown in Fig 37.
- Slightly turn the (A) screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig 27.
- 5: Adjust the head aximuth again. (Turning the (C) screw, or (A) screw, will cause head aximuth mis-alignment. (Refer to Aximuth adjustment.)
- 6: Confirm that both signals of CH-1 and CH-2 are nearly the same level. (Confirm that neither of the CH-1 or CH-2 output levels exceed 100 mVp-p). If the result is not satisfactory, repeat steps (3 to 5).

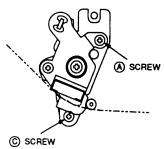
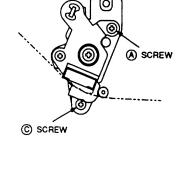
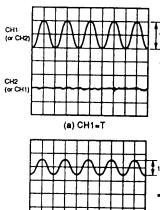
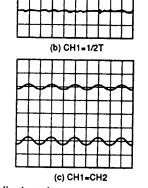


Fig 36.



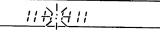


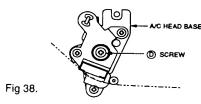


Phase Adjustment

Fig 37.

- Connect an oscilloscope's CH-1 to the TP2 (ENVE) on the PRE AMP PCB and CH-2 to the TP1 (V-SWP) for triggering.
- Play back reference tape TF-530RFS (AT-751775)
- Press one of the TRACKING buttons on the remote control unit until the flashing point reaches the centre position of the tracking range (colon) on the FL display as shown in Fig 38.





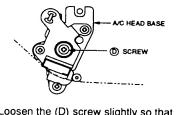
A/C HEAD BASE and (A) hole as shown in Fig 39.

screwdriver in the direction of the arrow as shown in Fig 39 to obtain the maximum RF output, then tighten the (D) screw.

output is maximum after the auto-Next, press the "< " or ">" cursor button on the remote control unit alternately and confirm that the RF output is maximum at the tracking centre position.

Description Head Drum Block BID30X08STL CMT ZS-321298 BID26X08STL CMT ZS-563444 Chassis Drum MA-42019J1 Earth Brush Part AG VT-401282J Lower Drum BLK G204EA BV-V1182A410A Motor SDV-0302A BM-419324N1 PAN26X12STL CMT ZS-467796 PAN30X06STL CMT S-GRIP ZS-425694J ST BID30X12STL CMT ZS-336714 ST BID30X06STL CMT ZS-358936 Upper Drum BLK X400EGN (Except EK) BV-V1123A420A Upper Drum BLK G215EK (EK) BV-V1182A420A Mechanism Block (1) Arm Loading BLK G204EA BL-424913N Arm Loading Brake ML-420097N Arm Lid Opener ML-420170N Arm Idler Part MI-420023N Arm Pinch Roller Part BL-420054N Arm Review Part ML-420068N Arm T.U Brake ML-420102N Arm Tension Part ML-420006N Cassette Load BLK G204EA BV-424919N Disk(2) Part MT-424632N Gear Cam Helical MZ-420064N Gear Cam Pinch MZ-420066N Gear Pinch MZ-420067N Guide Roller D8 Part VT-387394J1 Head Combo HVMZA1161A HR-416732J Head E HVFHF0032A HE-422168J Holder Pinch MZ-420065N

Mechanical Parts List



Loosen the (D) screw slightly so that the 4: A/C HEAD BASE can be moved with reasonable tightness. nsert a philips type screwdriver into the

Move the A/C HEAD BASE by moving a

Eject the tape and then re-insert it and play it back again. Confirm that the RF tracking control has been activated. If the result is not satisfactory, repeat

the adjustment steps 2) to 6). (This adjustment is very important as this affects the interchangeability of the recorded tapes.)

Main Brake (S) Part ML-420086N Mecha Deck G204EA BB-421843N N30 Nylon ZW-350839 PAN20X2.8STL CMT PS1 Leader ZS-418616J PAN26X08STL N13 ZS-550708 PAN26X07STL CMT CP ZS-422170J PAN20X2.2STL BZN PS1 ZS-418480J Plate Upper MZ-420172N PRISM LED MZ-420132N PT BID26X12STL CMT ZS-403887J PW31X060X050PSL ZW-324417 Reveiw Brake Part ML-420092N Reel Washer (SG) ZW-424667N Roller Impedance MR-420022N ST BID26X06STL CMT ZS-38761J SP Plate Upper ZG-420162N SP Pull Dumper(S) ZG-420166N SP Pull Dumper(T) ZG-420167N SP Pull Review Brake ZG-420095N SP Pull T.U Brake ZG-420103N SP Pull Loading Brake ZG-420098N SP Pull Main Brake ZG-420091N

Leader (T) BLK G204EA

Leader (S) BLK G204EA

Lever Tension(1)Part

Main Brake (T) Part

Lever Pinch

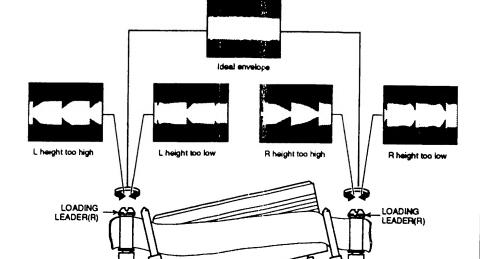
BV-424915N

BV-424914N

ML-420061N

ML-420416N

ML-420089N



Mechanical Parts List Cont'd.						
Description	Part No.	Description	Part No.	Description	Part No.	
Mechanism Block (1) Cont	d.	Disk Clutch Part Disk Coupling	NI-420038N MI-420037N	PW26X060X050PSL	ZW-3899 23J	
SP Pull Pinch	ZG-420062N			Socket TKC-MO7X-A1 7P	EJ-42 2169J	
SP Pull Tension(1)	ZG-420015N	Gear Cam Main	MZ-420122N	Slide S-SW	MZ-420135N	
SP Push A/C	ZG-420075N	Gear Coupling	MZ-420035N	Slider Pinch	ML-420110N	
SP Torsion Review	ZG-420071N	Gear Toggle(S) BLK G204EA	MZ-424917N	Slider Trigger	ML-420100N	
SP Torsion Slider	ZG-420169N	Gear Toggle(T) BLK G204EA		SLIT W21X050X050PSL	ZW-418816J	
Slider Front Loading	ML-420168N	Gear Front Loading	MZ-420124N	SP Pull Toggle	ZG-420117N	
SLITW16X035X025 PSL	ZW-395919J	Gear Worm Wheel	MZ-420123N	SP Pull Trigger	ZG-420101N	
ST BID30X06STL CMT	ZS-358936	ļ		SP Push Coupling	ZG-420036N	
ST PAN30X05STL		Holder Thrust Worm	MR-420109N	SP Torsion C.B	ZG-420129N	
CMT C080	ZS-362533	Lever M Brake	ML-420099N	SP Trigger	ZG-420105N	
		Lever REC-S	ML-420133N	SP Torsion Coupling	ZG-420034N	
Tension Band Part	MZ-420016N	Motor Part	BM-421746N	SP Torsion REC-S	ZG-420134N	
Mechanism Block (2)		Motor SCV-0602A	BM-419269N	SW Mode Select		
				MMS00201ZMBO	ES-419326J	
Arm Coupling	ML-420033N	PAN26X04STL CMT	ZS-432843	ST BID30X06STL CMT	ZS-358936	
Belt Capstan	MB-420053N	PT BID26X10STL CMT	ZS-389950J	İ		
BID30X03STL CMT	ZS-425981	Pulley Trigger	MR-420106N			
Capstan Brake Part	ML-420126N	PW21X040X050PSL	ZW-321317			

Power Supply Diagram

